

On a Species of the Genus *Stenobronchus* Ad. Schmidt from Japan

(Studies on the Lamellicorn Coleoptera, III)

By

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The genus *Stenobronchus* was established by Ad. Schmidt, based on some North American species, and has been treated as a subgenus of the genus *Aphodius*, but should be raised to the generic rank when we take the morphological and ecological status of the species included in this group of beetles into consideration. The species belonging to this genus have hitherto been known exclusively from North America, but recently we have been able to examine a few specimens of the genus from Saghalien and Honshu, Japan. The present paper deals with the result of our study in the genus concerned from Japan and Saghalien, including the descriptions of a new species and a new subspecies.

Before going further we wish to express our sincere thanks to Dr. O. L. Cartwright who sent so kindly to us a specimen of North American species of the genus for our study. We are also much indebted to Prof. Chihisa Watanabe, Messrs. Yoshihiko Kurosawa, and Teitaro Horio for their kind help for us.

Genus *Stenobronchus* Ad. Schmidt, 1922.

Oxyomus (part.), Mannerheim, 1843, Bull. Soc. Moscou, xvi, p. 261.

Aphodius (*Stenotothorax*), Ad. Schmidt (non S. H. Scudder, 1882), 1913, Arch. Naturg., lxxix, A 11, p. 122.

Stenobronchus, Ad. Schmidt, 1916, Arch. Naturg., lxxxii, A 1, p. 99.

Aphodius (*Stenobronchus*), Ad. Schmidt, 1922, Tierreich 45, Aphodiinae, p. 4.

Body oblong, black or reddish brown, shining and glabrous. Head short but broad, rounded-narrowed forwards, slightly convex above, with a tubercle in the middle, simply punctured or rugosely so; clypeus emarginate in front, rounded or dentate on both sides, frontal suture not raised; cheeks broad and obtusely angulate. Prothorax narrowed towards base, with sides rounded, side and basal borders marginate, hind angles truncate or emarginate, disc clearly punctured. Scutellum triangular, small or very small. Elytra bearing a small tooth on each shoulder, more or less dilated backwards, punctate-striate; epipleura normal. Under surface shining, punctured and pubescent. Front tibiae with 3 outer teeth, bearing a terminal spur at inner angle of apical margin. Hind tibiae with terminal setae of equal or unequal length.

♂. Terminal spur of front tibiae sharply pointed, curving inwardly at apex.

♀. Terminal spur of front tibiae simple.

Distribution: North America, Saghalien and Japan.

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Stenobronchus hibernalis sp. nov. (Figs. 1, 2, 4, 5)

Oblong, slightly dilated posteriorly. Piceous black, shining, with antennae, mouth organs, hairs of body above and beneath testaceous.

♂. Head strongly transverse, front margin arcuate and emarginate in middle, bearing a reflexed tooth on each side, marginate on both sides and immarginate along median emargination; cheeks obtusely angulate-produced outwardly; above evenly and coarsely punctured, convex before middle, the punctuation stronger along front and side margins. Prothorax about twice as broad as long, widest before middle, narrowed and broadly but slightly sinuate posteriorly, strongly rounded in front together with front angles, hind angles subtruncate but very slightly and obliquely emarginate, front margin sublinear, side and basal margins distinctly marginate, base slightly arcuate-produced; disc moderately convex, not closely bearing coarse punctures and fine ones intermixed. Scutellum triangular, with pointed apex, sparsely punctured anteriorly. Elytra slightly dilated posteriorly, each with a small humeral tooth and bearing 9 punctate striae, intervals nearly flat and smooth, clearly but finely and rather sparsely punctured, the punctures on outer intervals coarser and stronger, the striae becoming deeper near apex. Mesosternum coarsely and densely punctured. Punctuation of metasternum sparse, fine in middle and coarse on both sides. Outer apical angle of front tibiae obliquely expanded, with 3 teeth at outside and apical margin very oblique. Parameres of male genitalia gently narrowed towards apex, slender, curving downwards, and slightly depressed at tip.

♀. Clypeus transversely rugose in front and at sides. Intervals of elytra slightly convex, and the punctures more clearly impressed. Latero-anterior parts of metasternum roughly rugose.

Body length: ♂ 7.7–7.8 mm, ♀ 7.8 mm; width: ♂ 3.4–3.5 mm, ♀ 3.7 mm.

Closely resembles *S. badiceps* (Melsh.) from North America, but the punctuation of pronotum is more close and that of elytra is much larger and clearer, and the male genitalia are differently formed.

Holotype: ♂ Futamatazawa, Aizu, Honshu, Japan, 16. VIII. 1950, Y. Kurosawa leg.

Allotype: ♀ Taira, Iwashiro, Honshu, Japan, 11. XI. 1953, A. Matsuzaki leg. (in coll. Nakane)

Paratype: ♂ Saga, Kyoto, Honshu, Japan, 27. XII. 1950, K. Tsukamoto leg. (in coll. Tsukamoto)

All the specimens were found under bark.

Stenobronchus hibernalis saghalinensis subsp. nov.

(Figs. 2, 6, 7)

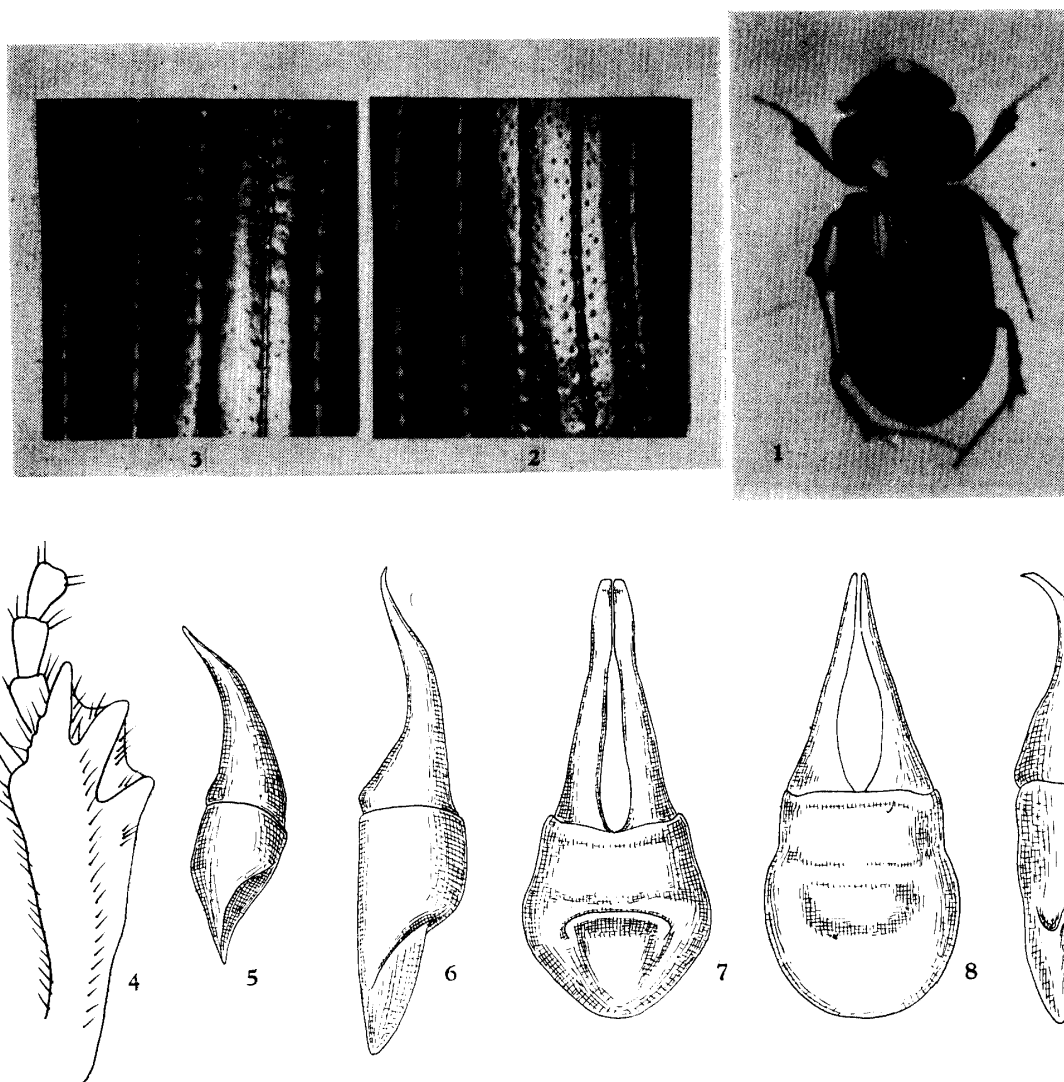
♂. Differs from the nominate subspecies in the following points:

1. Clypeus distinctly transversely rugose in front,
2. Intervals of elytra a little convex and the punctuation a little shallower and sparser,
3. Latero-anterior parts of metasternum rugose,
4. Parameres of male genitalia more slightly curving downwards apically and the apex strongly depressed and a little reflexed.

Body length: 8.3 mm; width 4.0 mm.

Holotype: ♂ Konuma, S. Saghalien, 27. VII. 1928, K. Tamanuki leg.

(in coll. Ent. Lab., Hokkaido Univ.)



Explanation of Figures

1. *Stenobronchus hibernalis* Nakane et Tsukamoto sp. nov. ♂ (holotype).
2. Ditto ♂ (paratype). Elytral structure.
3. *Stenobronchus hibernalis saghalinensis* Nakane et Tsukamoto subsp. nov. ♂ (holotype).
Elytral structure.
4. *Stenobronchus hibernalis* Nak. et Tsuk. Front tibia (right).
5. Ditto. Male genitalia.
6. *Stenobronchus hibernalis saghalinensis* Nak. et Tsuk. Male genitalia, lateral view.
7. Ditto. Male genitalia, dorsal view.
8. *Stenobronchus badiceps* (Melsheimer). Male genitalia, dorsal view.
9. Ditto. Male genitalia, lateral view.

摘 要

クチネマグソコガネ属 *Stenobronchus* Ad. Schmidt は従来北米よりのみ知られていたが、最近、著者等は本州及び樺太の同属標本を研究する機会を得、これらを 1 新種及びその亜種として記載した。

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